

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A displacement control signal correction method for correcting a displacement control signal output based upon predetermined reference characteristics of a displacement altering ~~means~~ unit, comprising:

calculating a displacement control pressure corresponding to a reference displacement based upon the reference characteristics and determining correction pressure characteristics based upon a difference between the displacement control pressure and a corresponding measured pressure; and

calculating a correction pressure corresponding to a target displacement based upon the correction pressure characteristics and correcting the displacement control signal in correspondence to the correction pressure.

2. (currently amended) A displacement control signal correction method for correcting a displacement control signal output based upon predetermined reference characteristics of a displacement altering ~~means~~ unit, comprising:

calculating a displacement control pressure corresponding to a target displacement based upon the reference characteristics and correcting the

displacement control signal through feedback control so as to reduce a difference between the displacement control pressure and a corresponding measured pressure.

3. (currently amended) A displacement control signal correction method for correcting a displacement control signal output based upon predetermined reference characteristics of a displacement altering ~~means~~ unit, comprising:

setting in advance a reference displacement control signal and a reference displacement control pressure corresponding to a reference displacement based upon the reference characteristics, ascertaining a relationship between a predetermined displacement control signal and a pressure measured when the displacement control signal is output, calculating a displacement control signal needed to generate the reference displacement control pressure based upon the relationship having been ascertained, and calculating a difference between the displacement control signal and the reference displacement control signal; and

correcting a displacement control signal output in correspondence to a target displacement based upon the difference having been calculated.

4. (currently amended) A displacement control device, comprising:
a displacement altering ~~means for generating~~ unit that generates a displacement control pressure corresponding to a displacement control signal;
an input ~~means for inputting~~ unit that inputs a target displacement;

a pressure calculating ~~means for calculating~~ unit that calculates a displacement control pressure corresponding to the target displacement based upon predetermined reference characteristics of the displacement altering ~~means~~ unit;

a pressure detecting ~~means for detecting~~ unit that detects a pressure corresponding to the displacement control pressure; and

a correcting ~~means for correcting~~ unit that corrects a displacement control signal corresponding to the target displacement input through the input ~~means~~ unit based upon the displacement control pressure having been calculated by the pressure calculating ~~means~~ unit and the measured pressure detected by the pressure detecting ~~means~~ unit.

5. (currently amended) A displacement control device according to claim 4, wherein:

the correcting ~~means~~ unit corrects the displacement control signal based upon the displacement control pressure having been calculated by the pressure calculating ~~means~~ unit, a first measured pressure corresponding to a minimum displacement, which is detected while increasing the displacement, and a second measured pressure corresponding to a maximum displacement, which is detected while decreasing the displacement.

6. (currently amended) A displacement control device according to claim 4 ~~or claim 5~~, wherein

the correcting ~~means~~ unit includes:

a pressure characteristics setting ~~means for setting~~ unit that sets correction pressure characteristics corresponding to the target displacement based upon a difference between the displacement control pressure having been calculated by the pressure calculating ~~means~~ unit and the measured pressure detected by the pressure detecting ~~means~~ unit; and

a correction pressure calculating ~~means for calculating~~ unit that calculates a correction pressure corresponding to the target displacement input through the input ~~means~~ unit based upon the correction pressure characteristics, and wherein

the correcting ~~means~~ unit corrects the displacement control signal so as to adjust an actual displacement to the target displacement in correspondence to the correction pressure having been calculated.

7. (currently amended) A displacement control device according to claim 4, wherein:

the correcting ~~means~~ unit corrects the displacement control signal through feedback control so as to decrease a difference between the displacement control pressure having been calculated by the pressure calculating ~~means~~ unit and the measured pressure detected by the pressure detecting ~~means~~ unit.

8. (currently amended) A displacement control device, comprising:

a displacement altering ~~means for generating~~ unit that generates a displacement control pressure corresponding to a displacement control signal;

an input ~~means for inputting~~ unit that inputs a target displacement;

a pressure detecting ~~means for detecting~~ unit that detects a pressure corresponding to the displacement control pressure;

a signal output ~~means for outputting~~ unit that outputs a displacement control signal corresponding to the target displacement to the displacement altering ~~means~~ unit based upon predetermined reference characteristics of the displacement altering ~~means~~ unit;

a setting ~~means for setting~~ unit that sets a reference displacement control signal and a reference displacement control pressure corresponding to a reference displacement, based upon the reference characteristics; and

a correcting ~~means for calculating~~ unit that calculates a displacement control signal needed to generate the reference displacement control pressure based upon a measured pressure detected by the pressure detecting ~~means~~ unit, when the displacement control signal is output by the signal output ~~means~~ unit, calculating a difference between the displacement control signal and the reference displacement control signal and correcting the displacement control signal output to the displacement altering ~~means~~ unit based upon the difference having been calculated.

9. (currently amended) A displacement control device according to claim 8, wherein:

the correcting ~~means~~ unit calculates a displacement control signal needed to generate the reference displacement control pressure based upon a first measured pressure corresponding to a minimum displacement, which is detected by the pressure detecting ~~means~~ unit while increasing the displacement, and a second measured pressure corresponding to a maximum displacement, which is detected while decreasing the displacement.

10. (currently amended) A displacement control device according to ~~any of claims 4 through 9~~ claim 4, further comprising:

a filtering ~~means for filtering~~ unit that filters a detection value provided by the pressure detecting ~~means~~ unit so as to eliminate a vibration component from the measured pressure.

11. (currently amended) A construction machine equipped with a displacement control device according to ~~any of claims 4 through 10~~ claim 4.

12. (currently amended) A computer-readable computer program product containing a program that enables a computer to execute ~~processing for correcting a displacement control signal output based upon predetermined reference characteristics of a displacement altering means, comprising: a~~ displacement control signal correction method according to claim 1.

~~processing for calculating a displacement control pressure corresponding to a reference displacement based upon the reference characteristics and determining correction pressure characteristics based upon a difference between the displacement control pressure and a corresponding measured pressure; and processing for calculating a correction pressure corresponding to a target displacement based upon the correction pressure characteristics and correcting the displacement control signal in correspondence to the correction pressure.~~

13. (currently amended) A computer-readable computer program product containing a program that enables a computer to execute ~~processing for correcting a displacement control signal output based upon predetermined reference characteristics of a displacement altering means, comprising: a~~ displacement control signal correction method according to claim 2.

~~processing for calculating a displacement control pressure corresponding to a target displacement based upon the reference characteristics and correcting the displacement control signal through feedback control so as to reduce a difference between the displacement control pressure and a corresponding measured pressure.~~

14. (currently amended) A computer-readable computer program product containing a program that enables a computer to execute ~~processing for correcting a displacement control signal output based upon predetermined~~

~~reference characteristics of a displacement altering means, comprising: a
displacement control signal correction method according to claim 3.~~

~~processing for setting in advance a reference displacement control signal
and a reference displacement control pressure corresponding to a reference
displacement based upon the reference characteristics, ascertaining a
relationship between a predetermined displacement control signal and a
pressure measured when the displacement control signal is output, calculating a
displacement control signal needed to generate the reference displacement
control pressure based upon the relationship having been ascertained and
calculating a difference between the displacement control signal and the
reference displacement control signal; and~~

~~processing for correcting a displacement control signal output in
correspondence to a target displacement based upon the difference having been
calculated.~~

15. (new) A displacement control device according to claim 8, further comprising:

a filtering unit that filters a detection value provided by the pressure detecting unit so as to eliminate a vibration component from the measured pressure.

16. (new) A construction machine equipped with a displacement control device according to claim 8.